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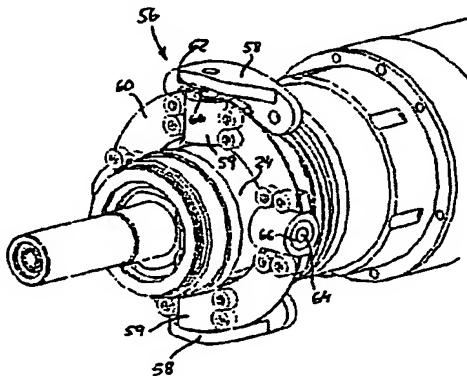
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(54) Title: ORBITAL MACHINING APPARATUS WITH DRIVE ELEMENT WITH DRIVE PINS



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(57) Abstract: An orbital machining apparatus for producing a hole in a workpiece by means of a cutting tool comprising a first actuator configured for rotating the cutting tool about its longitudinal center axis during the machining of the hole; a second actuator configured for moving the cutting tool in an axial feed direction substantially parallel to said tool axis; a third actuator configured for rotating the cutting tool about a principal axis; and a radial offset mechanism configured for controlling the radial distance of the center axis of the cutting tool from said principal axis. The third actuator includes a rotating drive element (57) driven by an individual motor, a carrier ring (60) connected to and rotated by the drive element (57) by means of two diametrically opposed, radial drive pins (62) such that the carrier ring (60) may perform a radial sliding movement relative to the drive element (57) while being rotated thereby, and two diametrically opposed, radial carrier guide shafts (64) circumferentially spaced 90° from the drive pins (62) and connecting the carrier ring (60) and an inner cylindrical eccentric body such that the latter may perform a radial sliding movement relative to the carrier ring while being rotated thereby.